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XA - C1985-124869

XIC - C12P-017/06 ; C12R-001/62

AB - J60199396 Fermentative prepn. of daidzein (I) and tectorigenin (II)
comprises culturing microorganisms to produce and isolate (I) and (II)
from the culture fluid.

- (III) can be cultured with usual culture fluid for actinomyces, contg.
suitable C-source, N-source, inorganic salts, etc.. Carbohydrates
(glucose, fructose, sucrose, starch, dextrin, mannose, maltose,
molasses), organic acids (citric acid, malic acid, acetic acid,
fumaric acid), alcohols (methanol, ethanol), hydrocarbons (methane,
ethane, propane, n-paraffine), amino acids, glycerol etc. can be used
as C-source. Ammonium salts (ammonium chloride, ammonium sulphate,
ammonium nitrate, ammonium phosphate), aminoacids (aspartic acid,
glutamine, cystine, alanine) and other nitrogen contg. substances can
be used as N-source. Other substances, accelerating prodn. of (I)
and/or (II) may be added to the culture fluid as necessary.

Cultivation is pref. carried out at 20-40 deg. C, pH 7, for 3-15 days,
by shaking or aerobic culture. Concn. of (I) or (II) may reach a
maximum. (I) and (II) can be isolated from culture fluid by
combination of filtration, adsorption chromatography, thin-layer
chromatography etc..

- USE/ADVANTAGE - (I) and (II) are known and methods to isolate them are
already reported. By cultivation of the new microorganism,
Streptoverticillium sp. K-251 (III), a mixt. of (I) and (II) is obtd.,
and then (I) and (II) are isolated from culture fluid.

IW - FERMENTATION PREPARATION ISO FLAVONE DERIVATIVE DAIDZEIN CULTURE
STREPTOVERTICILLIUM SPECIES

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NC - 001

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TI - Fermentative prepn. of iso-flavone derivs. daidzein and tectorigenin -
by culturing streptoverticillium Sp. K-251